# ZX85-12G+

#### 0.2 to 12000 MHz $50\Omega$ Widehand

CASE STYLE: GC957

Connectors	Model
SMA	7X85-12G-S+

#### +RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

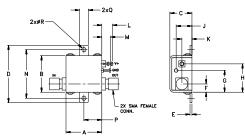
## Maximum Ratings

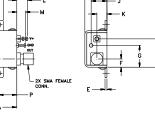
Operating Temperature	-55°C to 100°C	
Storage Temperature	-55°C to 100°C	
RF Power	30dBm	
Voltage at DC port	25V	
DC Current	400mA	
DC resistance from DC to F	RF&DC port 1.8Ω	
Permanent damage may occur if any	of these limits are exceed	lec

### **Coaxial Connections**

RF	OUT
RF&DC	IN
DC	V+

## **Outline Drawing**





## Outline Dimensions (inch )

J	Н	G	F	E	D	С	В	Α
.33	.59	.45	.17	.04	1.18	.46	.75	.74
8.38	14.99	11.43	4.32	1.02	29.97	11.68	19.05	18.80
wt		R	Q	Р	N	М	L	K
grams		.106	.18	.37	1.00	.18	.22	.21
_ 23		2.60	1.57	0.40	25.40	4.57	5.50	5 33

## **Features**

- wideband, 0.2 to 12000 MHz
- low insertion loss, 0.6 dB typ.
- high current capability, 400 mA
- small size 0.74" x 0.75" x 0.46"
- rugged unibody construction
- protected by US patent 6,790,049

### **Applications**

- · biasing amplifiers
- biasing of laser diodes
- · biasing of active antennas
- DC return
- DC blocking
- test accessory

## **Bias-Tee Electrical Specifications**

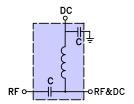
		EQ. Hz)		ı	INSERTIC (d		S*					WR* 1)		
	f	f	Time	L May	T. 100		Ti un	J	T	L May		М	Ti m	U
H	"L	<b>'</b> U	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.
L	0.2	12000	0.1	0.5	0.6	1.5	1.0	2.5	1.1	1.5	1.2	1.5	1.2	1.5

U=upper range (f,/2 to f,)

## **Typical Performance Data**

FREQUENCY (MHz)	INSERTION I	` '	VSWR (:1) with current		
	0mA	200mA	0mA	200mA	
0.20	0.09	0.25	1.17	1.18	
700.00	0.52	0.93	1.10	1.05	
1600.00	1.21	0.65	1.24	1.25	
2400.00	0.84	1.14	1.14	1.15	
3200.00	0.67	0.76	1.05	1.06	
4000.00	0.76	0.77	1.07	1.06	
4800.00	0.71	0.81	1.11	1.10	
5600.00	0.66	0.76	1.10	1.11	
6200.00	0.65	0.73	1.08	1.11	
7000.00	0.69	0.75	1.07	1.09	
7800.00	0.88	0.80	1.11	1.09	
8600.00	1.11	1.11	1.11	1.08	
9200.00	1.11	1.15	1.07	1.07	
10000.00	1.21	1.20	1.02	1.07	
12000.00	1.37	1.39	1.15	1.11	

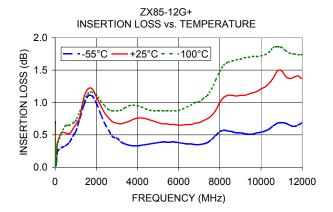
### **Electrical Schematic**

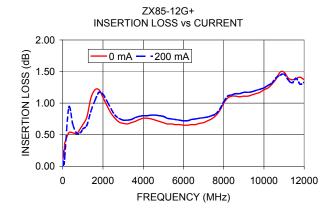


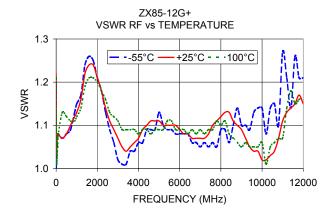
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

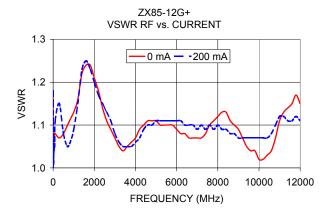
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

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